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sensor and an actuator. The actuator comprises an active element which converts an A.C. voltage supplied by the control unit to the actuator into dimensional changes. Said active element is adapted to be embedded in the body of the tool holder and in such manner that said dimensional changes impart bending to the body of the tool holder.--

IN THE CLAIMS:

Please amend the claims as follows:

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1. (Amended) A device for vibration control in a machine for cutting, said machine comprising a cutting tool supported by a tool holder, the device comprising a control unit and converting means which are connected to the control unit and comprise a vibration sensor and an actuator, and the actuator comprising an active element, which converts an A.C. voltage supplied by the control unit to the actuator into changes in a dimension of said active element, wherein said active element is embedded in the body of the tool holder, and wherein said active element is embedded in such manner that said changes in a dimension impart turning moments to the body of the tool holder.

2. (Amended) A device as claimed in claim 1, wherein said active element is embedded with its centre axis spaced from the centre axis of the tool holder.

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3. (Amended) A device as claimed in claim 1, wherein said active element is embedded close to the surface of the tool holder.

4. (Amended) A device as claimed in claim 1, said tool holder being elongated and having an end portion which is received in a mounting recess of the machine, wherein said active element is positioned along the tool holder such that, when the tool holder is held in said recess, a portion of said active element is within said recess.

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9. (Amended) A method for vibration control in cutting, comprising the steps of detecting the vibrations of a tool holder during cutting, and generating control vibrations in the tool holder, by means of at least one active element which is electrically controlled to generate changes in a dimension of said active element, the method further comprising the steps of embedding said active element in the body of the tool holder and, for generating the control vibrations, imparting turning moments to the body of the tool holder by generating at least one control voltage and applying the control voltage across said active element, and by varying the control voltage according to the detected vibrations.

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11. (Amended) A tool holder which is adapted to support a tool for cutting, the tool holder comprising an actuator, said actuator comprising an active element, which is electrically controlled to generate changes in a dimension of said active element, wherein said active element is embedded in the body of the tool holder and imparts, through said changes in dimension, turning moments to the body of the tool holder.

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15. (Amended) A tool holder as claimed in claim 11, said tool holder being arranged to be mounted in a machine for boring, said tool holder being elongated and having an end portion which is received in a mounting recess of the machine, wherein said active element is positioned along the tool holder such that, when the tool holder is held in said recess, a portion of said active element is within said recess.

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18. (Amended) A tool holder as claimed in claim 11, wherein said active element is arranged in a recess in the tool holder and has two opposite power transmitting surfaces, said power transmitting surfaces being engaged with surfaces of the body of the tool holder and said changes changing the distance between the power transmitting surfaces, and that the recess is sealed.